

M-DT-028

22 November 1955

MEMORANDUM FOR: Project Director

SUBJECT: Aircraft Requirements for System 2C and 2N Tests

25X1A

1. In discussions with [REDACTED] at R-W 17 November 1955, the requirements for air-ground and ground-air field tests for the Commo and Navigation systems were defined. The contractor agreed that the following factors describe his problem:

a. A long range aircraft is required in order to test at 3000 mile ranges in simulation of operational conditions.

b. A C-47 or similar aircraft will suffice for the more prolonged shorter range tests.

c. An airplane of the latter category is required commencing the first working week in January. Failure to provide will necessitate some alternate ground vehicle (simulating the airplane) which will result in the following:

(1) Introduce delay.

(2) Prevent valid tests (since a ground vehicle will not provide an ionospheric reflection point of appropriate velocity nor permit the use of an antenna accurately simulating the aircraft installation with respect to its physical and propagation characteristics).

d. It is expected that air-ground testing will involve approximately 2 flights per week extending over a period of 2 months.

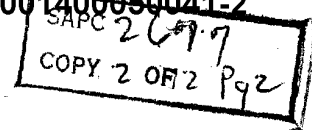
e. The tests will not involve structural changes in the airplane. It will be necessary to install the following:

(1) An antenna simulating that on "the bird."

(2) A 400 cycle AC and 28 volt DC power source similar to that on "the bird."

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NO CHANGE IN CLASS
1. DECLASSIFIED
CLASS. CHANGED TO: TS S C
NEXT REVIEW DATE: 2012
DATE 11/18/82

Comms



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2. Our conversations also brought out the fact that the aircraft arrangements must be such as will not invalidate the personal and company life insurance policies covering the contractor's employees.

3. I trust that all the foregoing will receive your early consideration.

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